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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/658,049	09/08/2000	Ernie Lin	12203-002001	2910
26161	7590 08/04/2004		EXAMINER	
FISH & RICHARDSON PC			TRAN, TUAN A	
225 FRANKLIN ST BOSTON, MA 02110			ART UNIT	PAPER NUMBER
			2682	1 /
			DATE MAILED: 08/04/2004	16

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/658,049	LIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tuan A Tran	2682	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet t	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	J36(a). In no event, however, may a by within the statutory minimum of the will apply and will expire SIX (6) MC e, cause the application to become	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 07 N	1ay_2004.		
	s action is non-final.		
3) Since this application is in condition for allowal closed in accordance with the practice under I	•	·	
Disposition of Claims			
4) ☐ Claim(s) 1,3,9-14 and 19-33 is/are pending in 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3,9-14 and 19-33 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the		• •	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	·		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in ority documents have bee ou (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper N	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	



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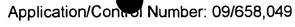
DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3, 9-14 and 19-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bullock et al. (2002/0049036) in view of Liebenow (6,522,640) and further in view of Michel et al. (6,147,979) & Ide et al. (5,955,921).

Regarding claims 1, 3, 25 and 29, Bullock discloses a modem (See fig. 1) comprising: a base unit 102 for transmitting a data signal to a computer modem over a wireless medium wherein the base unit being in communication with a telephone line and receiving an original signal from the telephone line and generating the data signal at radio frequency via analog frequency modulation without performing analog-to-digital conversion on the original signal (See fig. 1, 3 and page 3 [0070], page 4 [0076]). However, Bullock does not mention that a communication card which receives the data signal from the base unit and performs echo canceling on the data signal, and the base unit comprises; a hybrid circuit which separates signals flowing between the base unit and the telephone line and produces an echo signal; and an AGC circuit which generates



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a data signal having substantially no linear distortion from a composite signal by maintaining a level of the composite signal within a predetermined linear amplification region. Liebenow teaches a wireless modem (See fig. 2) comprising a base unit and communication card wherein the communication card receives data signals from the base unit over wireless medium and performs echo canceling on the data signal (See fig. 2-4 and col. 3 lines 62-65, col. 4 line 33 to col. 5 line 64). Michel teaches a modem that comprises a hybrid circuit which separates signals flowing between the base unit and the telephone line and produces an echo signal (See fig. 5 and col. 9 lines 1-30). Ide teaches an AGC circuit which generates a data signal having substantially no linear distortion from an input signal by maintaining a level of the composite signal within a predetermined linear amplification region (See figs. 16-17 and col. 29 line 65 to col. 30 line 16, col. 30 lines 58-64, col. 31 lines 29-36). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the communication card as disclosed by Liebenow in the system of Bullock for the advantage of expanding the capability of the system to various types of wireless communication devices and to apply the teachings of Michel and Ide respectively in reconfiguring the base unit as disclosed by Bullock for the advantage of cross coupling the telephone signals to the base unit as well as enhancing the feed forward control process to avoid saturation at the amplifier.

Claims 10, 19, 23-24, 30-33 are rejected for the same reasons as set forth in claims 1, 3, 25 and 29.

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Regarding claims 11-14, Bullock & Liebenow & Michel & Ide disclose as cited in claim 10, but they do not mention that the communication card includes a switch, wherein the switch is triggered by a circuitry when the line present indicator detects a wired medium, for selecting a type of medium over which to transmit and receive the data signal. Since Liebenow discloses the communication card capable of operating in two wireless and wire-line modes (See fig. 2 and col. 4 lines 33-50, col. 5 lines 21-25), and establishing a switching circuit to select operation modes based on detection indicating whether or not wired medium interfaced is a common practice in the art; therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to establish a switching circuit to select operation modes based on detection indicating whether or not wired medium interfaced for the advantage of operating the system in the correct mode in accordance to the user's intention.

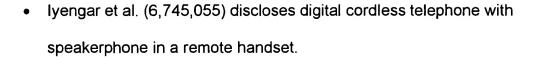
Claims 9, 20-22, 26-28 are rejected for the same reasons as set forth in claims 11-14.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Ohmagari et al. (5,553,318) discloses transmitter having envelope feedback loop and automatic level control loop.
- Bergmans et al. (4,835,765) discloses arrangement for full-duplex data transmission over two-wire circuit.
- Brooks (4,171,469) discloses abbreviated dialing system.



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• Babitch et al. (5,930,719) discloses data and voice cordless telephone system.

Response to Arguments

Applicant's arguments with respect to pending claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan Tran** whose telephone number is (703) 605-4255.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin, can be reached at (703) 308-6739.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Tuan Tran

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"VIVIAN CHIN SUPERVISORY PATENT EXAMINER

TET HOLD IN PENTER 2600

1/20/04